

Interoperable Communication
Network –
A communications lifeline
program for those who protect
lives.

A VCOMM Initiative



Design Concept

Establish a statewide VCALL/UCALL interoperable network that leverages existing sites when available.

Add additional channels for internal government business and mobile data capabilities when funding becomes available.



Dispatch and Gateways

- Local, Municipal, Regional and State dispatch facilities would be connected to VCAA and UCALL channels in their operating regions
- Gateways would connect VCALL and UCALL channels to other outside organizations



First Responder Method of Access

- Each participating agency would receive as a minimum two (2) units for each professional public safety occupation to be used by their personnel as their way of accessing the interoperable network. Additionally, as the mobile data layer is rolled out, organizations within the range of the network can utilize this method for accessing network resources.
- All other first responders within the State who have radios with the capacity to accept the additional channels will be authorized to program their radios with the channel information. This will rapidly build interoperability capabilities within our communities.



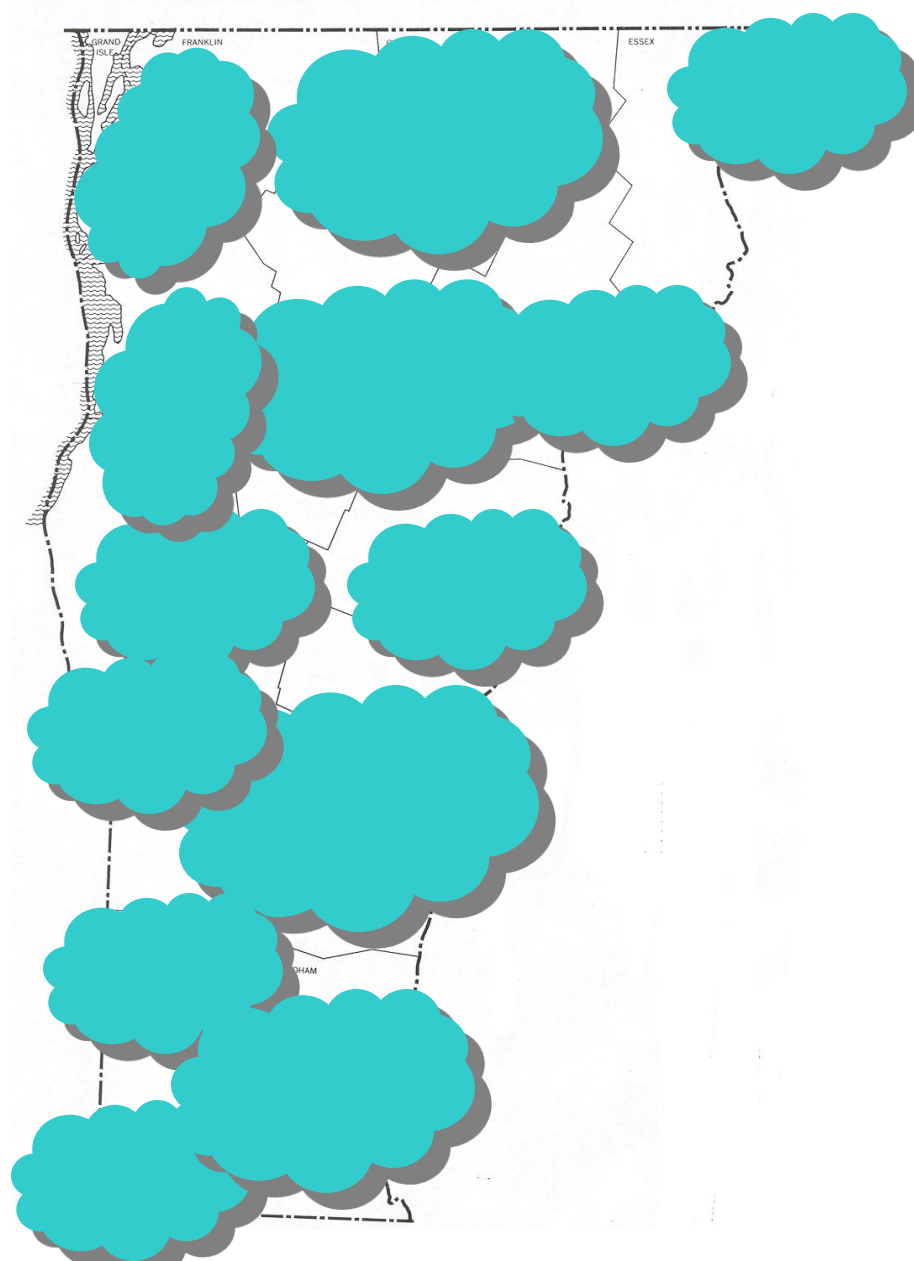
System Build out site selection preferences:

- State communications sites with microwave facilities
- State communications sites without microwave facilities
- Municipal sites (Site selection will be based on size of RF footprint in areas that the state sites do not provide coverage)
- Commercial sites (Site selection will be based on size of RF footprint in areas that the state & municipal sites do not provide coverage)
- Develop new sites

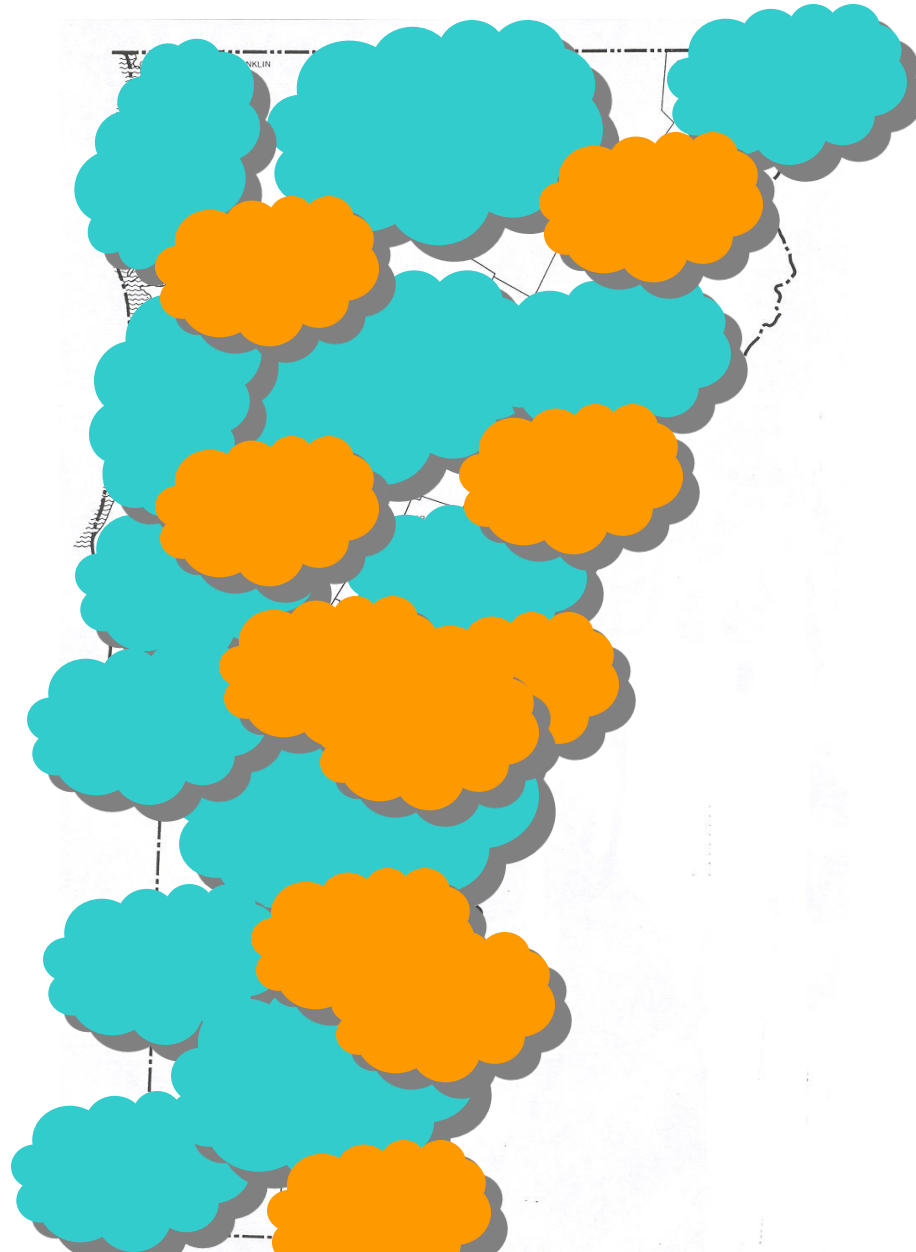
Public Safety Interoperability Channels

Mobile Rx	Mobile Tx	Mobile Direct	PL	Nomenclature
155.7525	155.7525	N/A	TBD	VCALL
151.1375	151.1375	N/A	TBD	VTAC 1
154.4525	154.4525	N/A	TBD	VTAC 2
158.7375	158.7375	N/A	TBD	VTAC 3
159.4725	159.4725	N/A	TBD	VTAC 4
453.2125	458.2125	453.2125	TBD	UCALL
453.4625	458.4626	453.4625	TBD	UTAC 1
453.7125	458.7125	453.7125	TBD	UTAC 2
453.8625	458.8625	453.8625	TBD	UTAC 3

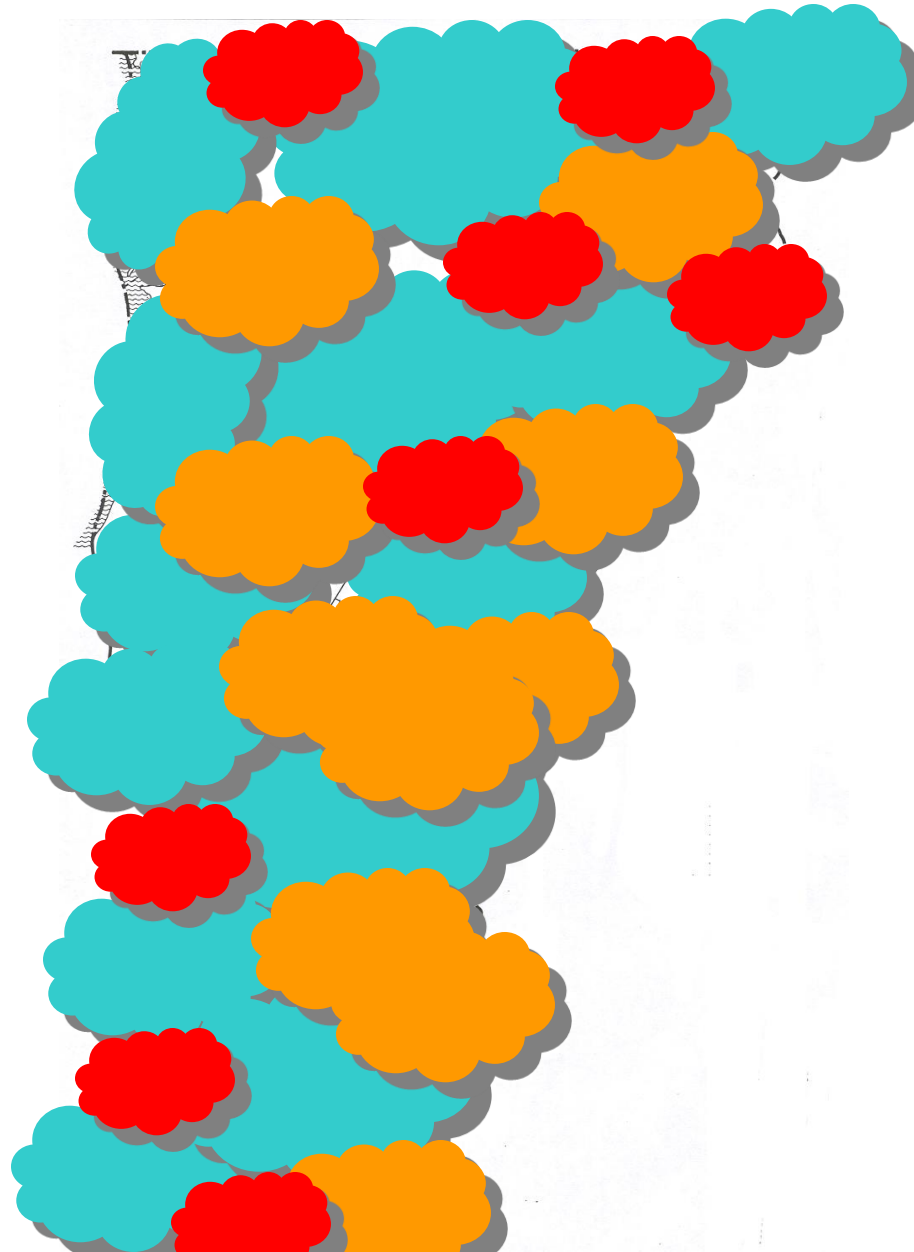
Coverage from State owned facilities (not actual coverage)



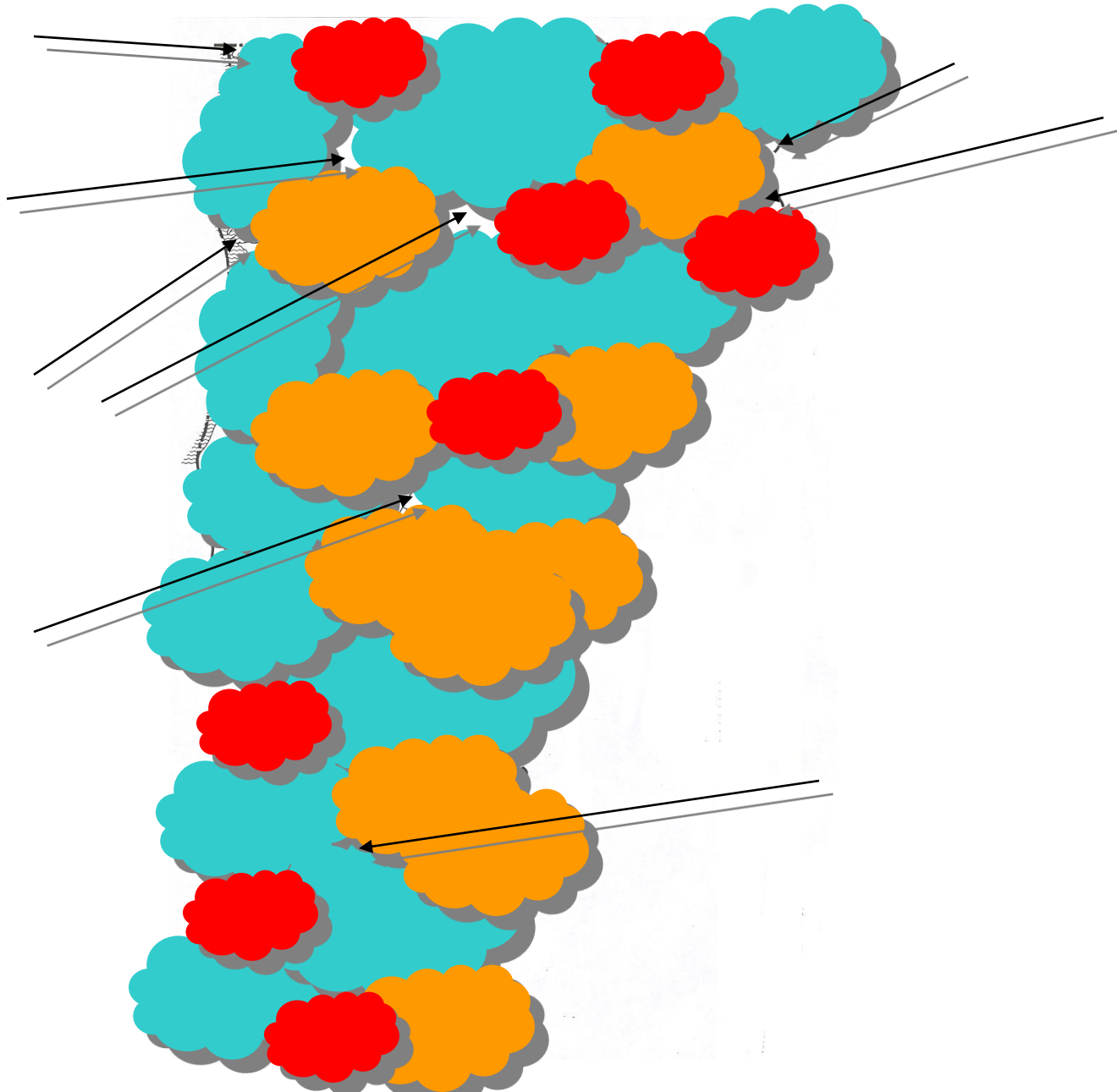
Coverage from State owned facilities & Municipal Facilities



Coverage from State owned facilities & Municipal Facilities & New Facilities



There will be dead spots !!!





Initial System Design Goals

- Provide good to excellent mobile coverage
- Maximize use of sites already developed
- Minimize new construction and permitting challenges
- Allow First Responder community to maintain their own radio systems while having access to an interoperable radio network
- Keep the financial investment **practical**




Federal Mandates Being Met

- Homeland Security efforts to get interoperability solutions deployed
- System will be designed under new narrowband guidelines to comply with Federal Communications Commission (FCC) mandates



Long Term Goals

- Expand the number of radio channels available to migrate internal government traffic to a FCC compliant platform.
- Expand network to assist selected communities with core coverage needs
- Expand services to include data for the First Responder community when funding is available.
- Assist First Responder entities in enhancing their internal communications needs



“Imaginary obstacles are insurmountable.
Real ones aren’t.”

~ Barbara Sher